A new era of AI takes Lockheed Martin

An aerospace defense company unifie disparate data with the help of IBM.

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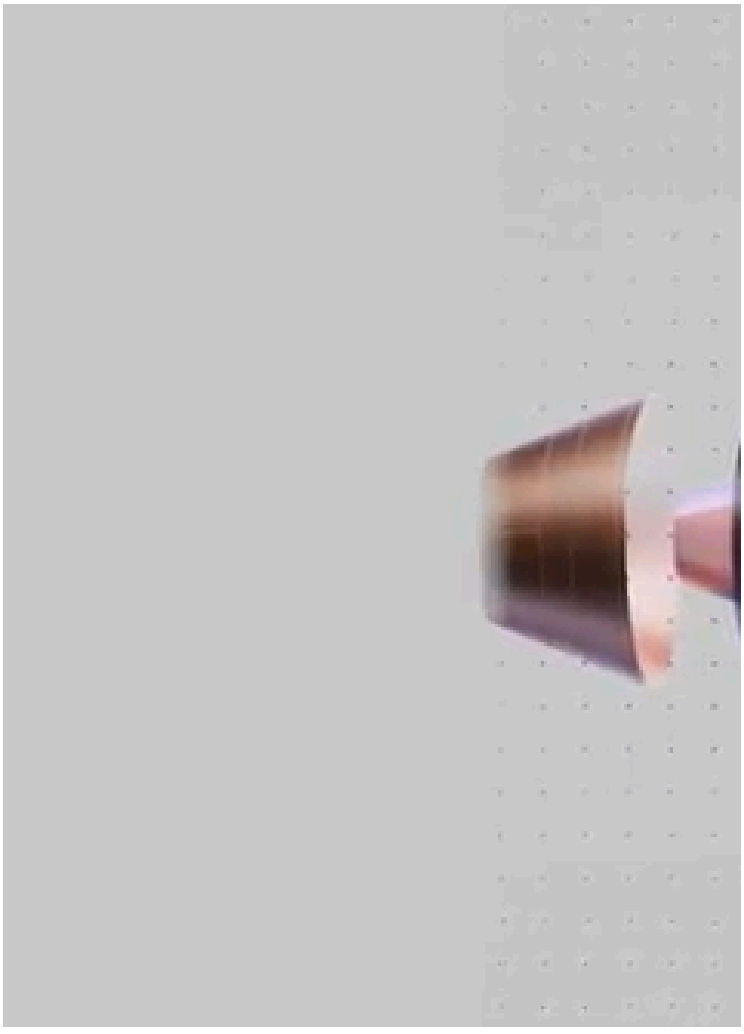


Data fuels AI takeoff

Lockheed Martin—a global leader in aerospace a
with IBM to transform its business with AI, star
disconnected data. With the help of IBM, Lockh
landscape and overcame the complexities of da

The result was a unified, accessible database th
scale and use of agentic AI for workflows and e

LOCKHEED

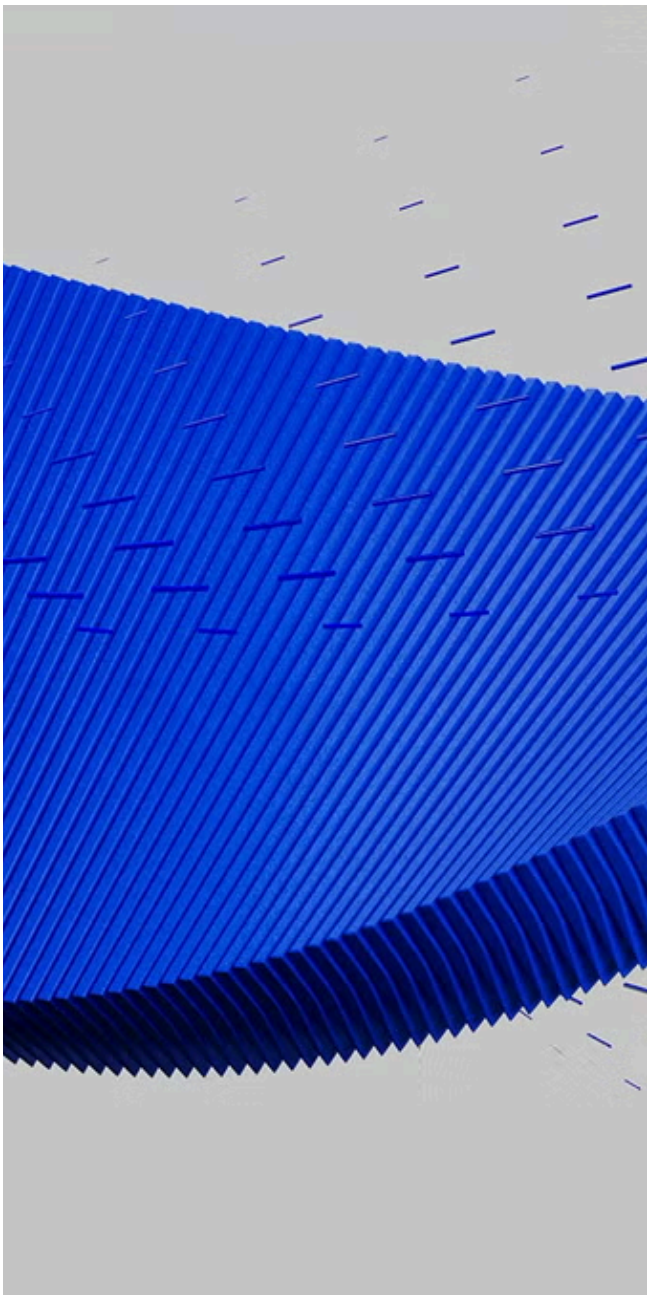
Outcomes

50%

reduction in data and AI tools.

216

data catalog definitions automated.



“ Data is the foundational element t
together across the enterprise.”

Stephan Gerali
Chief Architect and Senior Fellow
Lockheed Martin

Unifying data, ignitin

Going from 46 systems to a single integrated

It previously struggled with data silos due to se
systems for data management, data analytics a

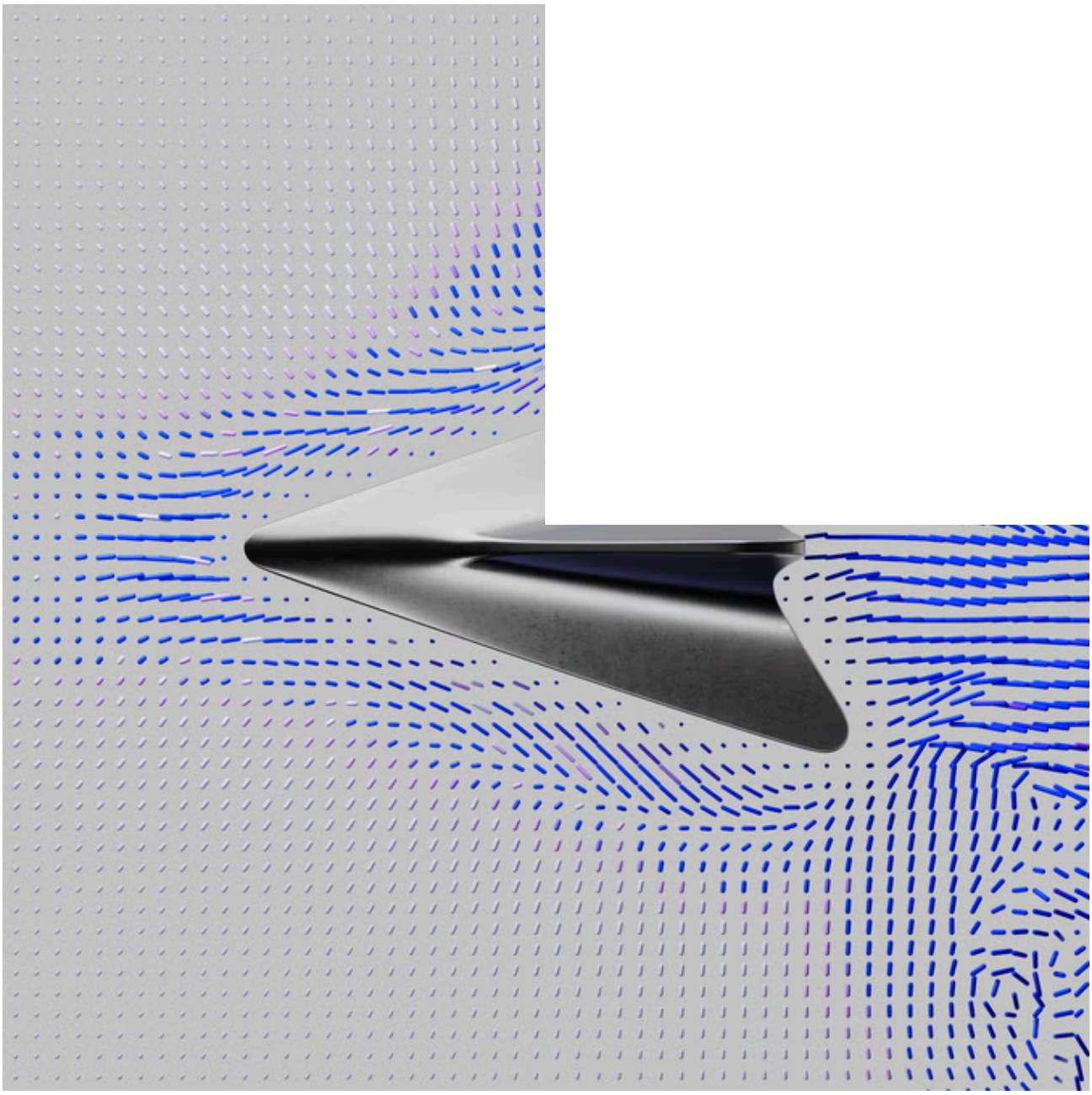
With the help of IBM, Lockheed Martin replacec
connected and accessible environment. Once a
in place, the company was able to access its hig
data to fuel the creation of a strong AI ecosyste

Products/Solutions

watsonx.data® →

watsonx.data integration →

watsonx.data intelligence →



“ We’re getting closer each day to a data-driven culture where folks can take the data they have and immediately make use of it.”

Stephan Gerali
Chief Architect and Senior Fellow
Lockheed Martin

Atmosphere to build in

In the secure AI Factory, engineers build fast and at scale with open AI.

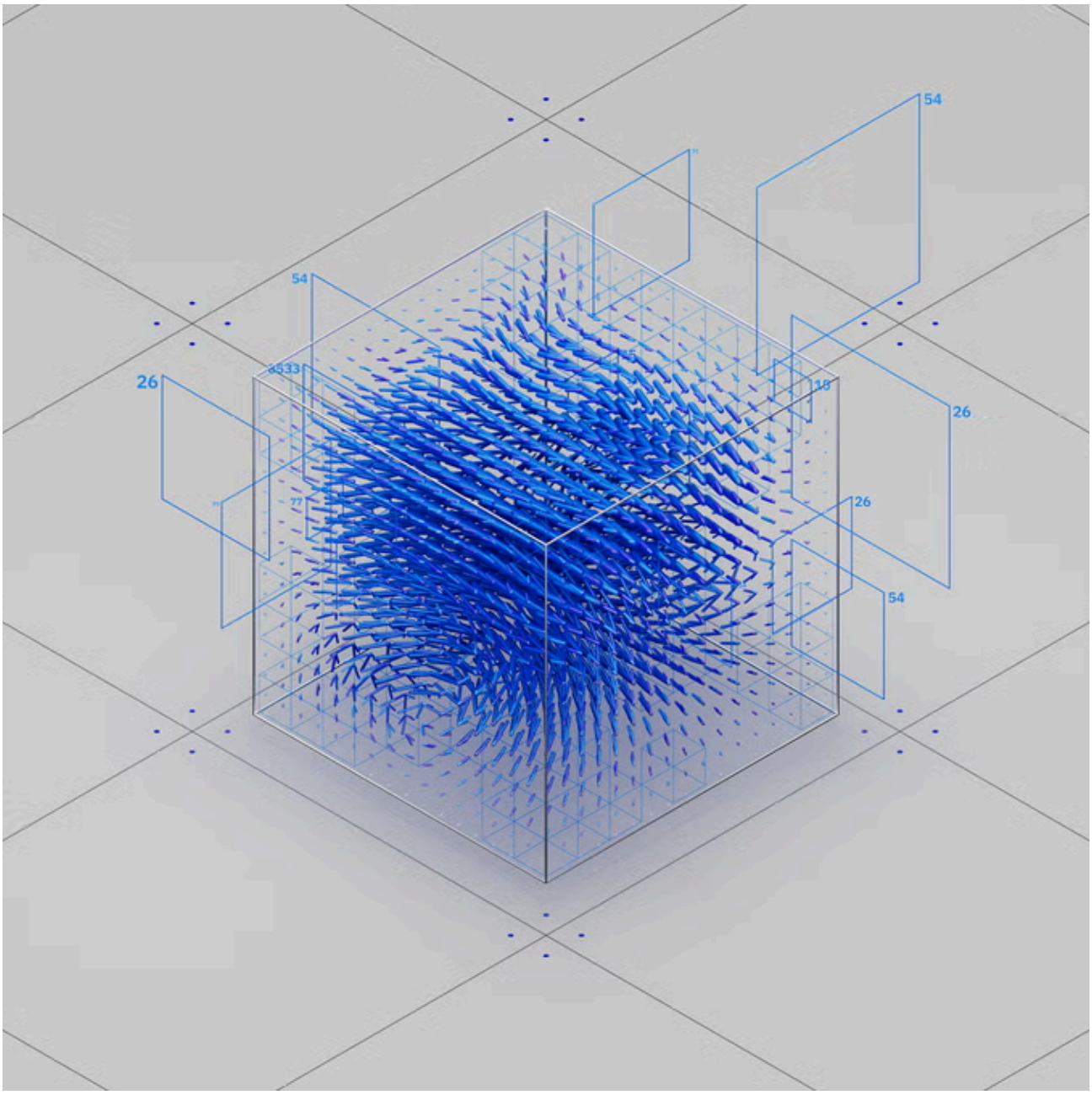
Accessible data fueled the Lockheed Martin AI Factory, a secure AI ecosystem where 10,000 engineers can build, iterate on and deploy large-scale AI solutions—fast. IBM® Granite®, a family of open AI models, accelerates application deployment within the AI Factory, so engineers can rapidly rollout intelligent solutions at scale.

Agentic frameworks and advanced virtual agents—which were developed in the AI Factory—helped the company better manage complex workflows, simplify interactions between people and technology and enhance efficiency through process automation and optimization. This technology led to an initiative to transform internal operations with AI.

Products/Solutions

watsonx.governance →

watsonx Orchestrate →



“ AI is transforming our customer’s mission. They need AI tools that help them make better, faster decisions.”

Stephan Gerali
Chief Architect and Senior Fellow
Lockheed Martin

Agentic AI from the ground up

Lockheed Martin is experiencing faster, more accurate responses when employees use agentic AI for research.

They're building their own internal AI engine to boost efficiency, streamline operations and achieve cost-effectiveness across the enterprise. Generative AI (gen AI) models built with watsonx® have eliminated the need for specialized coding by letting employees inquire about source data in their natural language. Lockheed Martin has also been able to better manage employee inquiries and HR-related tasks using watsonx conversational AI chatbots. These AI assistants have helped simplify the company's rapid response to employee questions and improve HR processes.

Early results for a gen AI question answering pilot program showed a substantial increase in the accuracy of responses to sample questions—rising from 45.45% to 56.8% with prompt engineering and to 66.0% with query optimization.

Products/Solutions

watsonx.governance →

watsonx Orchestrate →

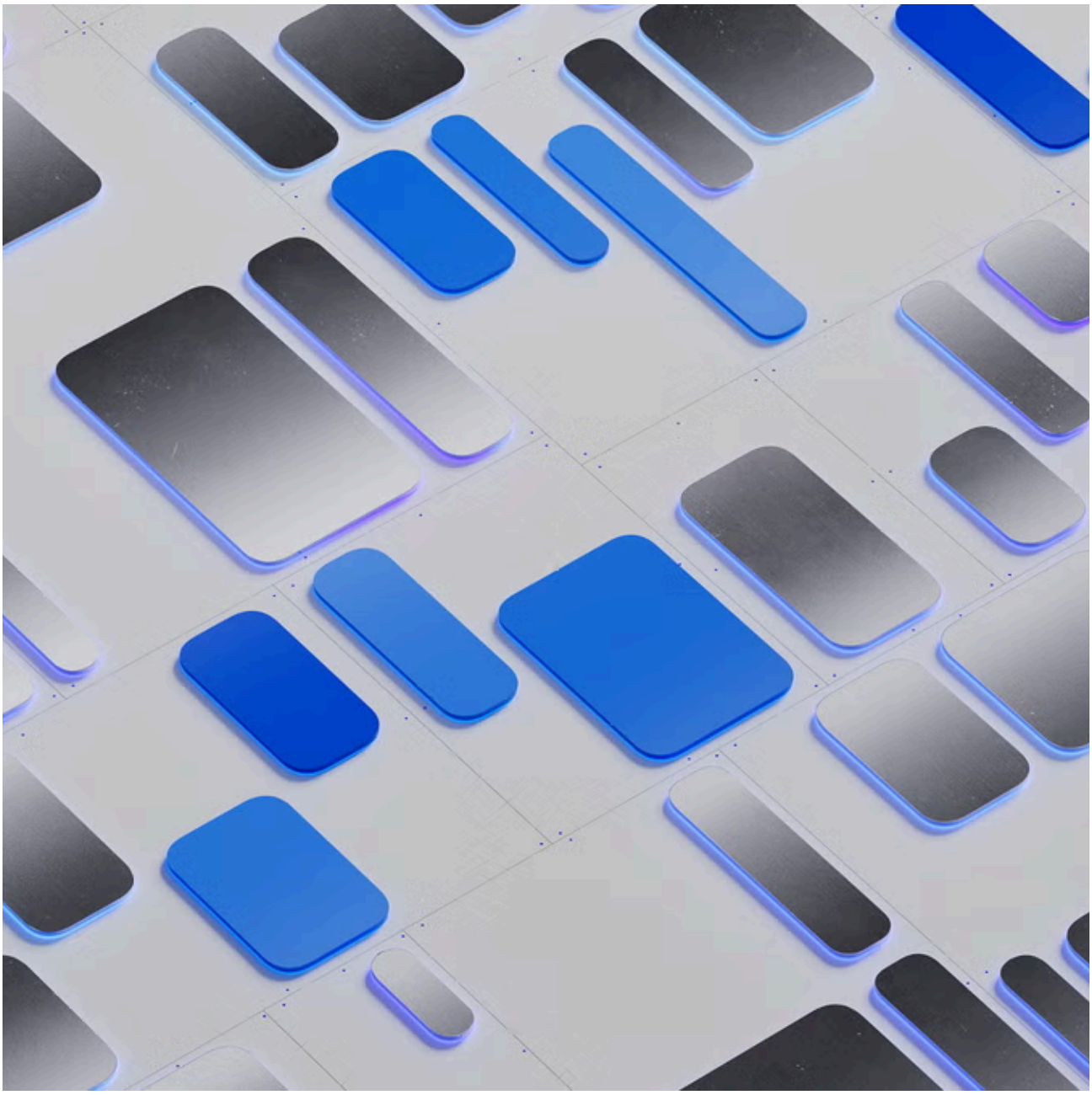
Outcomes

0%

increase in accuracy of responses with prompt engineering.

0%

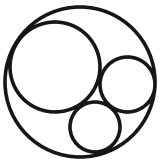
boost in AI response accuracy through query optimization using watsonx.



“ When problems are beyond human scale, AI can help illuminate solution opportunities.”

Stephan Gerali
Chief Architect and Senior Fellow
Lockheed Martin

Resources



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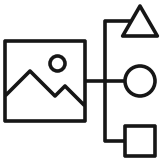

Data matters
Dive into what matters to data leaders.

Get more data insights →

AI is only as good as your data
Turn all your data into quality data for AI.

Get the data for AI e-book →

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Examples presented as illustrative only. Actual results will vary based on client configurations and conditions and, therefore, generally expected results cannot be provided.